



Asbestos free double pressed and autoclaved flat sheets SILBONIT HA-HC. Reinforced with mineralized cellulose fibers and through colored, the sheets have smoothed surface and rectified edges. The sheets are CE marked according to EN 12467:2016.

SILBONIT HA-HC – Technical Data Sheet (rev.7 del 18/07/2017)

* wet over dry	Unit of measure	Value
STANDARD DIMENSIONS** AND GEOMETRY		
Length	mm	2500 3000 3050
Width	mm	1200 1250
Thickness		5-6-8-10-12-15-20
Tolerances on nominal dimensions	Classification according to EN 12467:2016	Level 1
- on length	mm	± 2
- on width	mm	± 1
- on straightness of edges	%	0,1
- on squareness of edges	mm/m	2
- on thickness for smooth sheets	mm	± 0,2
Nominal weight	kg/m ²	14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm)
PHYSICAL PROPERTIES		
Density (dry)	kg/m ³	1600 ± 50
MECHANICAL PROPERTIES		
E modulus of elasticity (dry)		
- longitudinal	GPa	14
- transversal	GPa	12
E modulus of elasticity (wet)		
- longitudinal	GPa	11
- transversal	GPa	9
Bending strength (wet) – untreated sheets	MPa	≥18
Bending strength (wet) – hydrophobic treated and acrylic coated (treated sheets)	MPa	≥24
Bending strength (dry)		
- longitudinal	MPa	32
- transversal	MPa	22
Compressive strength	MPa	40
Resistance (Charpy test)	According to EN 179-1:2010	
- longitudinal	kJ/m ²	4,3
- transversal	kJ/m ²	3,1



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HYGROMETRICAL PROPERTIES		
Natural humidity	%	10 ÷ 15
Max water absorption* – (untreated sheets)	%	25 ± 2
Max water absorption* – hydrophobic treated sheets (treated sheets)	%	9 ± 3
Max water absorption* – acrylic coated sheets (treated sheets)	%	3 ± 2
Moisture movement – Relative humidity change from 30% to 90%		
- longitudinal	mm/m	0,7
- transversal	mm/m	0,8
THERMAL AND WATER VAPOUR PROPERTIES		
Vapor resistance factor, μ – according to EN 12572:2016	---	320
Thermal conductivity – according to EN 12664:2002	W/mK	0,42
Thermal expansion coefficient – according to EN 10545-8:2014		
- longitudinal	1/°C	1,71•10-6
- transversal	1/°C	0,58•10-6
OTHER PROPERTIES		
Superior calorific power	MJ/kg	0,14
Fire rating class	According to EN 13501-1	A2 s1 d0
Freeze-thaw performance		RL ≥ 0,75
Durability classification	According to EN 12467:2016	category A
Strength classification – untreated sheets	According to EN 12467:2016	class 4
Strength classification – treated sheets	According to EN 12467:2016	class 5
Oils, acids, bases, salts resistance		good
Waterproof - inalterability		absolute
Wear resistance		good
CE marked product according to	---	EN12467:2016

** On request are available smaller dimensions.

If not otherwise specified the tests are in accordance to EN 12467:2016.

Please refer to the latest Technical Data Sheet available in the download area at:

<http://www.sil-lastre.com/download/>

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